

Illustrative render generated from published specifications

LG LGDBC21865

LG · also sold as ICR18650C2

18650

NMC



Live page & updates

2,800 mAh CAPACITY	— A RATED CONTINUOUS	3.72 V NOMINAL · 3 – 4.3 V	10.42 Wh ENERGY
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REFERENCE ONLY — NOT AN OFFICIAL DOCUMENT

This information is gathered from multiple sources, including manufacturer datasheets, independent third-party testing, and community contributions. Cell specifications vary between production batches and change over time, and no figure here is guaranteed to be correct or current. **Always consult the manufacturer's spec sheet directly.** Use this sheet for reference only — never as the sole basis for a safety-critical decision about charging, discharging, or assembling cells. The cell image is an illustrative render generated from published specifications, not a photograph.

CAPACITY AMONG 18650S #28 of 169 Lowest in databaseHighest More capacity than 84% of 18650 cells in our database. One of the higher-capacity options.	VOLTAGE OPERATING WINDOW 1.3 V usable Cutoff 3 VNominal 3.72 VMax 4.3 V Below nominal the cell sags fast under load; above it, the last of the capacity fills slowly on the constant-voltage taper.
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IDENTITY

Manufacturer	LG
Model	LGDBC21865
Also sold as	ICR18650C2
Format	18650
Chemistry	NMC
Wrap colour	Orange
Insulator	White

ENERGY & POWER DENSITY

Energy	10.42 Wh
Capacity ranking	#28 of 169 18650s

ELECTRICAL

Rated capacity	2,800 mAh
Nominal voltage	3.72 V
Max charge voltage	4.3 V
Discharge cutoff	3 V
Energy	10.42 Wh
Internal resistance	50 mΩ
Standard charge current	1,350 mA
Typical charge time	2.1 h
Standard discharge	540mA

CHARGING

RATE	CURRENT	ESTIMATED TIME TO FULL
0.5C	1,400 mA	~2h 00m
1C	2,800 mA	~1h 00m

Constant-current phase only. Real charge time runs longer because of the constant-voltage taper at the end.

SERIES PACK CONFIGURATIONS

Voltages calculated from this cell's own nominal and maximum charge voltage. The 3P columns show one common parallel count as a worked example — scale the parallel group to the capacity you need.

SERIES	NOMINAL	FULLY CHARGED	CELLS AT 3P	CAPACITY	ENERGY
3S	11.2 V	12.9 V	9	8.4 Ah	94 Wh
7S	26 V	30.1 V	21	8.4 Ah	219 Wh
10S	37.2 V	43 V	30	8.4 Ah	312 Wh
13S	48.4 V	55.9 V	39	8.4 Ah	406 Wh
14S	52.1 V	60.2 V	42	8.4 Ah	437 Wh

EXAMPLE PACKS

7S2P 24V ebike / small pack 14 cells · 26 V 5,600 mAh · 146 Wh	13S4P 48V ebike standard 52 cells · 48.4 V 11,200 mAh · 542 Wh	16S4P DIY powerwall 64 cells · 59.5 V 11,200 mAh · 667 Wh	4S6P Power tool replacement 24 cells · 14.9 V 16,800 mAh · 250 Wh
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SIMILAR CELLS

Same format and chemistry, within ±500 mAh.

CELL	MAH	CONTINUOUS	WH	WEIGHT	WH/KG
LG LGDBC21865 (this cell)	2,800	—	10.42	—	—
LG LGABE11865	3,200	9 A	12	49 g	245
LG LGEBE11865	3,200	4.9 A	12	—	—
Samsung ICR18650-32A	3,200	6.4 A	12	50 g	240
Sanyo NCR18650GA	3,300	10 A	11.9	48 g	248
EVE EVE-INR18650/33V	3,200	10 A	11.5	—	—

HANDLING & SAFETY

- Never charge above 4.3V or discharge below 3V.
- Store cells at around 3.6-3.8V (roughly 40-60% charge) for long-term storage.
- Don't mix cells with different capacities, chemistries, or states of charge in a pack.
- Inspect wraps before use. A torn wrap can cause a short circuit.
- Always use a BMS or balance charger appropriate for your pack configuration.
- Keep cells away from metal objects, keys, and coins. A short across the terminals can cause fire.

SOURCES & FURTHER READING

Cell Saviors page	cellsaviors.com/cell-database/lg-lgdbc21865
Full cell database	cellsaviors.com/cell-database